SmartNet
750/1000/1500/2000 LCD

USER'S MANUAL

MARUSON® UPS SYSTEMS

1. Inspection

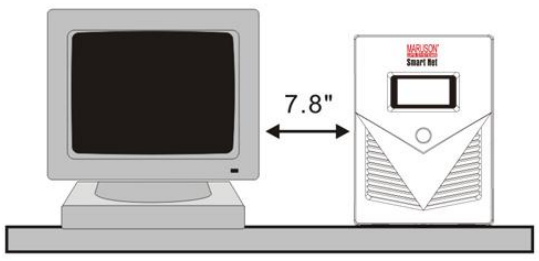
The following items are inside the box:

- User's Manual
- Power Cord
- USB Cable
- Warranty Card
- UPS
- RJ11 Cable
- Software CD
- Equipment Protection Policy

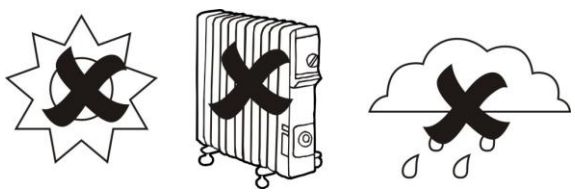
Remove SmartNet UPS from its package and inspect it for damage. If any damage is discovered, re-pack the unit and return it to the place of purchase.

2. Placement of UPS

Provide 7.8 inch clearance on sides for adequate airflow around the unit when placing beside a monitor.

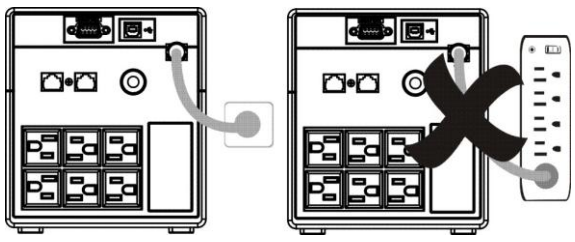


- Avoid direct sunlight.
- Avoid excessive heat.
- Avoid excessive humidity or liquids.
- Avoid excessive dust.



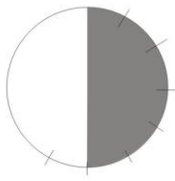
3. Connect UPS to Utility

Use the power cord that came with your UPS to connect the UPS directly to the wall outlet. *Do not power the UPS using a surge suppressor or power strip.*



Battery Charging:

The UPS battery charges whenever the UPS is connected to utility power and typically requires less than 6 hours to charge fully. Operating runtime is reduced until the battery is fully charged.



6 hours

4. Connecting Equipment to UPS

Connect the equipment to Battery Power Supplied outlets.

Battery Power Supplied Outlets (8)

Connect computer, monitor, and external drive to the "Battery Power Supplied" outlets. These outlets provide battery backup, EMI filtering, line conditioning, and surge protection. Battery power is automatically provided in case of power failure.

Beware of the Power Switch. It must be kept in the "ON" position, otherwise, the UPS will be disabled and your equipment will not be protected during a power failure.

5. Connect Modem/Phone Line/Network

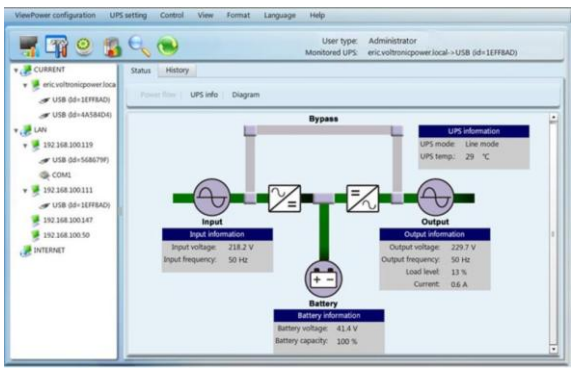
SmartNet UPS protects a single line (1 in/1out) phone, modem, or fax machine from surges when connected through the UPS. Plug in connecting internet line into the "IN" socket.

Use one more internet line cable in the "OUT" socket and plug one other end to the modem input socket.

6. Connect UPS to Computer

Connect one end of the USB/RS-232 cable to the PC and the other to the USB/RS-232 port at the rear of the UPS. Insert ViewPower software CD or download the latest version of ViewPower software from http://www.power-software-download.com to your hard drive. Follow on-screen instructions to complete the software installation.

Once PC is restarted, ViewPower is geared and presents as an orange plug icon located in the system tray at the bottom-right corner.



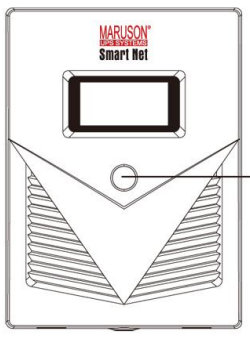
7. Turn On/Off

To turn on the UPS unit, press the power On/Off Switch once. To turn off the UPS unit, press the Power On/Off Switch again.

8. Storage

To store the UPS for an extended period, cover it and store with battery fully charged. While in storage, recharge the battery every 3 months to secure battery life.

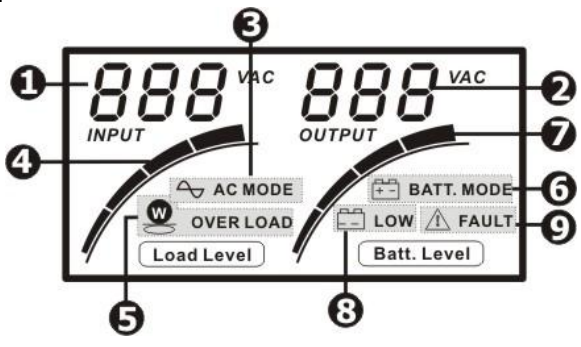
UPS Indicators and Controls



Power Switch

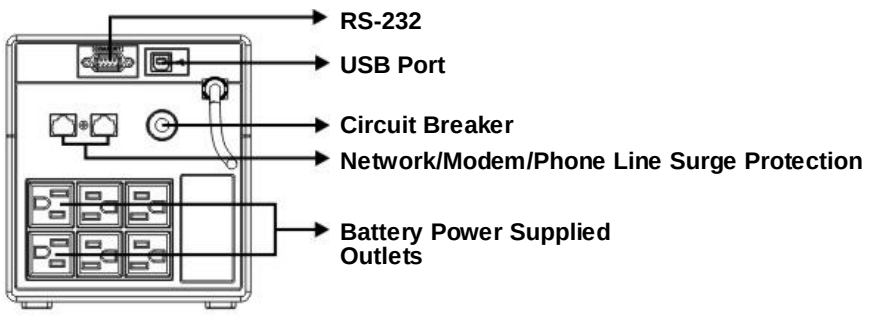
Press and release the button to supply power to the Battery Power Supplied Outlets. Press and release the button again to switch off power to the Battery Power Supplied Outlets.

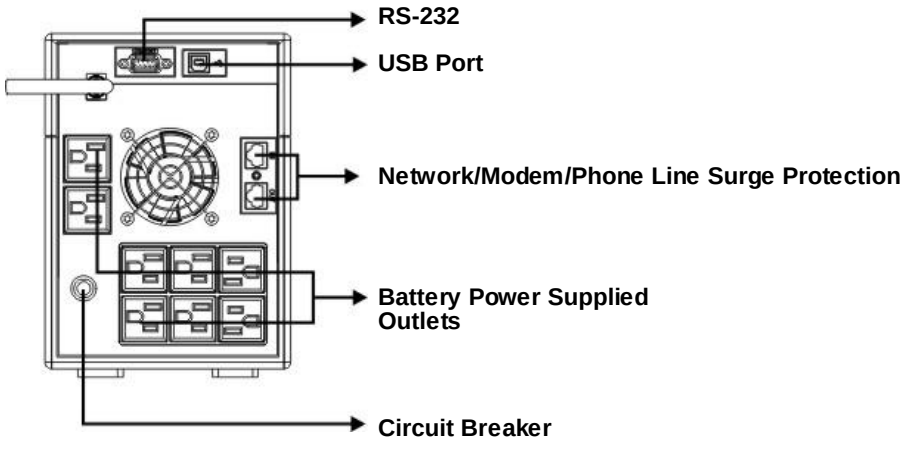
LCD panel:



❶ Input voltage
❷ Output voltage
❸ AC mode indicator
❹ Load level
❺ Overload indicator
❻ Battery mode indicator
❼ Battery level
❽ Low battery indicator
❾ Fault indicator

Panel Information





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Safety Caution

SAVE THESE INSTRUCTIONS-This manual contains important instructions for the SmartNet Series that should be followed during installation and maintenance of the UPS and batteries.

- This UPS utilizes voltage that may be hazardous. Do not attempt to disassemble the unit. The unit contains no user replaceable parts. Only factory service personnel may perform repairs.
- Internal battery voltage is 12Vdc. Sealed, lead-acid, 6 cells battery.
- Connection to any other type of receptacle other than a two-pole, three-wire grounded receptacle may result in shock hazard as well as violate local electrical codes.
- In the event of an emergency, press the "OFF" button and disconnect the power cord from the AC power supply to properly disable the UPS.
- Do not allow any liquids or any foreign object to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.
- This unit is intended for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in locations where there is standing or running water or excessive humidity.
- Do not plug the UPS input into its own output.
- Do not attach a power strip or surge suppressor to the UPS.
- Do not attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS.
- To reduce the risk of overheating the UPS, do not cover the UPS' cooling vents and avoid exposing the unit to direct sunlight or installing the unit near heat emitting appliances such as space heater or furnaces.
- Unplug the UPS prior to cleaning and do not use liquid or spray detergent.
- Do not open or mutilate the battery or batteries. Released electrolyte is harmful to the skin and eyes and may be toxic.
- A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:

1) Remove watches, rings, or other metal objects from the hands.
2) Use tools with insulated handles.
3) Wear rubber gloves and boots.
4) Do not lay tools or metal parts on top of batteries.
5) Disconnect charging source prior to connecting or disconnecting batteries terminal.

- Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.
- When replacing batteries, replace with the same number and type of sealed lead-acid battery. The maximum ambient temperature rating is 40°C.
- During the installation of this equipment it should be assured that the sum of the leakage currents of the UPS and the connected loads does not exceed 3.5mA.
- This pluggable type A equipment with battery already installed by the supplier is operator installable and may be operated by laymen.
- Attention, hazardous through electric shock. Also with disconnection of this unit from the mains, hazardous voltage still may be accessible through supply from battery. The battery supply should be therefore disconnected in the plus and minus pole of the battery when maintenance or service work inside the UPS is necessary.
- The mains socket outlet that supplies the UPS shall be installed near the UPS and shall be easily accessible.

Battery Recycling Information

UPS contains non-spillable sealed lead-acid batteries. On the battery, you will find the battery name. Please refer to the chart below for recycling information or contact your local distributor for assistance.

Battery Name	Recycling inside the USA	Recycling outside the USA
RITAR Battery	(800) 273-8599	N/A

Trouble Shooting

Problem	Possible Cause	Solution
No words display on the front panel.	Low battery.	Charge battery up to 6 hours.
	Battery fault.	Replace the battery with the same type of battery.
	The UPS is not turned on.	Press the power switch again to turn on the UPS.
Alarm continuously sounds when the mains is normal.	The UPS is overload.	Remove some loads first. Before reconnecting equipment, please verify that the load matches the UPS capability specified in the specs.
When power fails, back-up time is shorten.	The UPS is overload.	Remove some critical load.
	Battery voltage is too low.	Charge the UPS at least 6 hours.
	Battery defect. It might be due to high temperature operation environment, or improper operation to battery.	Replace the battery with the same type of battery.
The mains is normal but the unit is on battery mode.	Power cord is loose.	Reconnect the power cord properly.

*If any abnormal situations occur that are not listed above, please call for service immediately.

Specification

MODEL		NET-750LCD	NET-1000LCD	NET-1500LCD	NET-2000LCD
CAPACITY	VA/W	750 VA / 480 W	1000 VA / 700 W	1500 VA / 1050 W	2000 VA / 1400 W
INPUT	Voltage	110/120VAC or 220/230/240VAC			
	Voltage Range	81-145VAC or 162-290VAC			
	Frequency	50/60Hz (Auto Sensing)			
OUTPUT	Frequency Regulation (Batt. Mode)	50Hz or 60Hz +/-1Hz			
	Output Waveform	Pure sine wave			
BATTERY	Battery Type	12 V/ 9 AH x 1	12 V/ 7 AH x 2	12 V/ 9 AH x 2	12 V/ 10 AH x 2
	Back up Time	Up to 40 minutes	Up to 60 minutes	Up to 85 minutes	Up to 90 minutes
	Recharge Time	4-6 hours recover to 90% capacity			
TRANSFER TIME		2-6ms (Typical)			
PROTECTION	AC Surge Protection	Full time, 750 joules			
	Phone/fax/DSL / Network Surge Protection	RJ11/RJ45(One In One Out)			
	EMI/RFI Filter	Full time			
	AC Input	Circuit breaker			
	Full Protection	Overcharge and Overload Protection			
PHYSICAL	Dimension DxWxH	13.8 x 5.7 x 6.3 in		15.6 x 5.7 x 8.1 in	
	Net Weight	18.31 lbs	19.8 lbs	25.6 lbs	27 lbs
ENVIRONMENT	Operating Environment	0-40°C, 0-90 % Relative Humidity (non-condensing)			
	Noise Level	Less than 45dB		Less than 55dB	
INTERFACE	USB & RS-232	Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC			

*Specification may change without notice.

Product Warranty and Service Information:

For U.S. customers, please register your product at www.MarusonUSA.com. For international customers, please contact your local authorized distributor or e-mail CustSrv@MarusonUSA.com for assistance.

MARUSON® UPS SYSTEMS

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